

Timekeeping devices

RC oscillators
Crystal oscillators
Radio time keeping signals

Memory – items stored

Software
Information about celestial objects:
Sound recordings (e.g. spoken facts about the objects)
Alphanumeric (e.g. coordinates, object names)
Images (e.g. telescopic views of the objects)

Processing devices

Microprocessor
Computer
Personal digital assistant
Lap top computer
Personal computer
Cell phone

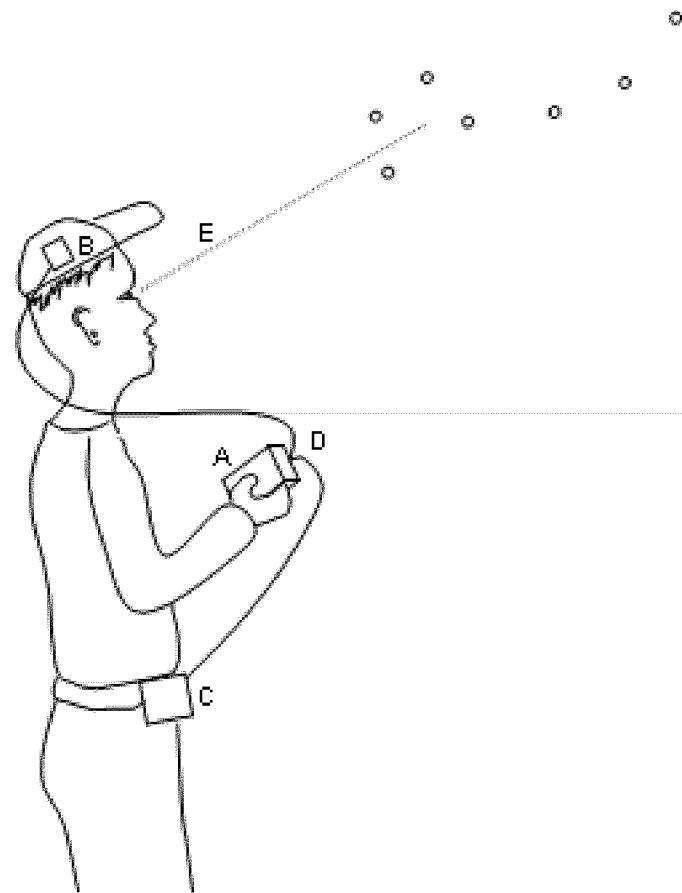
Sensors
Accelerometers
Magnetometers
Inclinometers
Compasses
Gyroscopes
Global Positioning Receivers

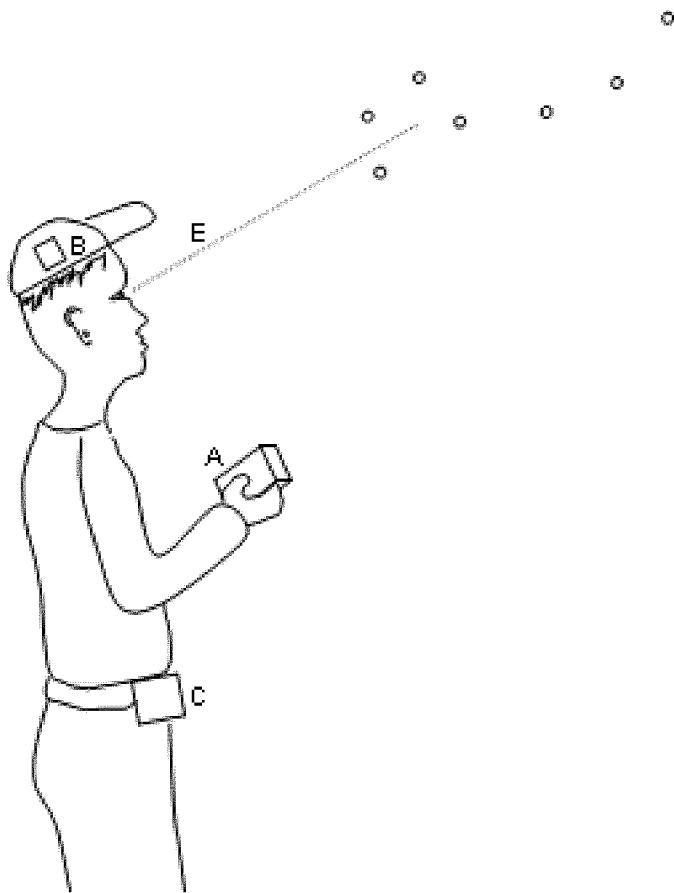
Potentiometers
Cameras
Electromagnetic sensors
Sound sensors
Voltage sensors

Input and output devices

Buttons, microphones

Batteries
Generators
Fuel cells





Enter or recall or sense via gps time, date, and location
Self test and startup procedures, e.g. calibrate sensors
Select mode of use – seek object or identify objects gazed upon



Select object sought - voice or key/mouse/button input



Determine gaze from sensors

Determine gaze from sensors

Compute angular distance from gaze to sought object

Compute angular distance to objects

Output directions to object via sound, vibration, or display

Repeat until angular distance is small

Identify object by recorded voice and/or display

Identify nearest object by recorded vo